



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Yasushi KANEKO et al.**

Serial Number: **08/981,654**

Filed: **January 8, 1998**

Group Art Unit: **2871**

Examiner: **D. Nguyen**

For: **LIQUID CRYSTAL SHUTTER AND METHOD OF DRIVING THE SAME**

**AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Date: **February 19, 2002**

Sir:

In response to the Office Action dated November 19, 2001, please amend the above-identified application as follows.

**IN THE CLAIMS:**

1. (Three Times Amended) A liquid crystal shutter comprising:

a liquid crystal device including a nematic liquid crystal sealed in between a first transparent substrate and a second transparent substrate on whose inner surfaces are formed respective transparent electrodes, said liquid crystal device having a twisted angle of  $190^\circ$  to  $260^\circ$ ; and

a pair of polarizing plates between which are sandwiched said first transparent substrate and said second transparent substrate, said polarizing plates having respective absorption axes which are orthogonal to each other, said absorption axes of said polarizing plates being angled within a range of  $\pm 40^\circ$  to  $\pm 50^\circ$  relative to a direction in which intermediate liquid crystal molecules are oriented, said direction indicating a direction of orientation of said liquid crystal in an intermediate portion in a direction of thickness of said liquid crystal device;

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Amend  
J. McMiller  
2/22/02